



NAVAL OPERATIONAL MEDICINE INSTITUTE



## FLEET HOSPITAL OPERATIONS & TRAINING CENTER

### CATF SUGGEON BRIEF



**CDR Elizabeth A. Breza, NC, USN**  
**4 March 2005**





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## **FLEET HOSPITAL OPERATIONS & TRAINING CENTER**

### **FLEET HOSPITAL PROGRAM**

**Mission: To provide a standardized, modular, flexible ashore combat medical and dental service capability (BUMED 3500.4 Fleet Hospital Program and Training Strategy).**

**Secondary Mission: To provide hospital services for use by U.S. government agencies involved in disaster or humanitarian relief or limited humanitarian care incident to these missions or peacetime military operations (OPNAVINST 3501.176C-draft Projected Operational Environment for the Fleet Hospital).**





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## FLEET HOSPITAL OPERATIONS & TRAINING CENTER

M4 Deputy Chief BUMED Logistics

NAVMEDLOGCOM

Fleet Hospital Program Office

Fleet Hospital Support Office

M7 Deputy Chief BUMED Education and Training

Naval Medical Education and Training Command

Naval Operational Medicine Institute

Fleet Hospital Operations and Training Center





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## **FLEET HOSPITAL OPERATIONS & TRAINING CENTER**

### **FLEET HOSPITAL PROGRAM OFFICE PML-500**

- Review Doctrine
- Implement Program Policy
- Identify Funding Requirements
- Establish and Review Standard Operating Procedures

**Located at Fort Detrick Maryland**





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## **FLEET HOSPITAL OPERATIONS & TRAINING CENTER**

### **FLEET HOSPITAL SUPPORT OFFICE**

- **Design and Configuration Agent**
  - **Life-cycle support**
  - **Integrate Logistics Overhaul**
  - **Acquisition**
  - **Assembly**
  - **Shipment**
  - **Technical advisor for activation and deactivation**
- 
- **Located at Williamsburg, VA**





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## **FLEET HOSPITAL OPERATIONS & TRAINING CENTER**

### **FLEET HOSPITAL OPERATIONS AND TRAINING CENTER**

- **Center for Training**
  - **Active & Reserve Navy Medical**
  - **Construction Battalions (SeaBees)**
  - **Required support personnel**
  - **Provide support to Fleet Hospital Assist Teams**
- 
- **Located at Camp Pendleton, CA**

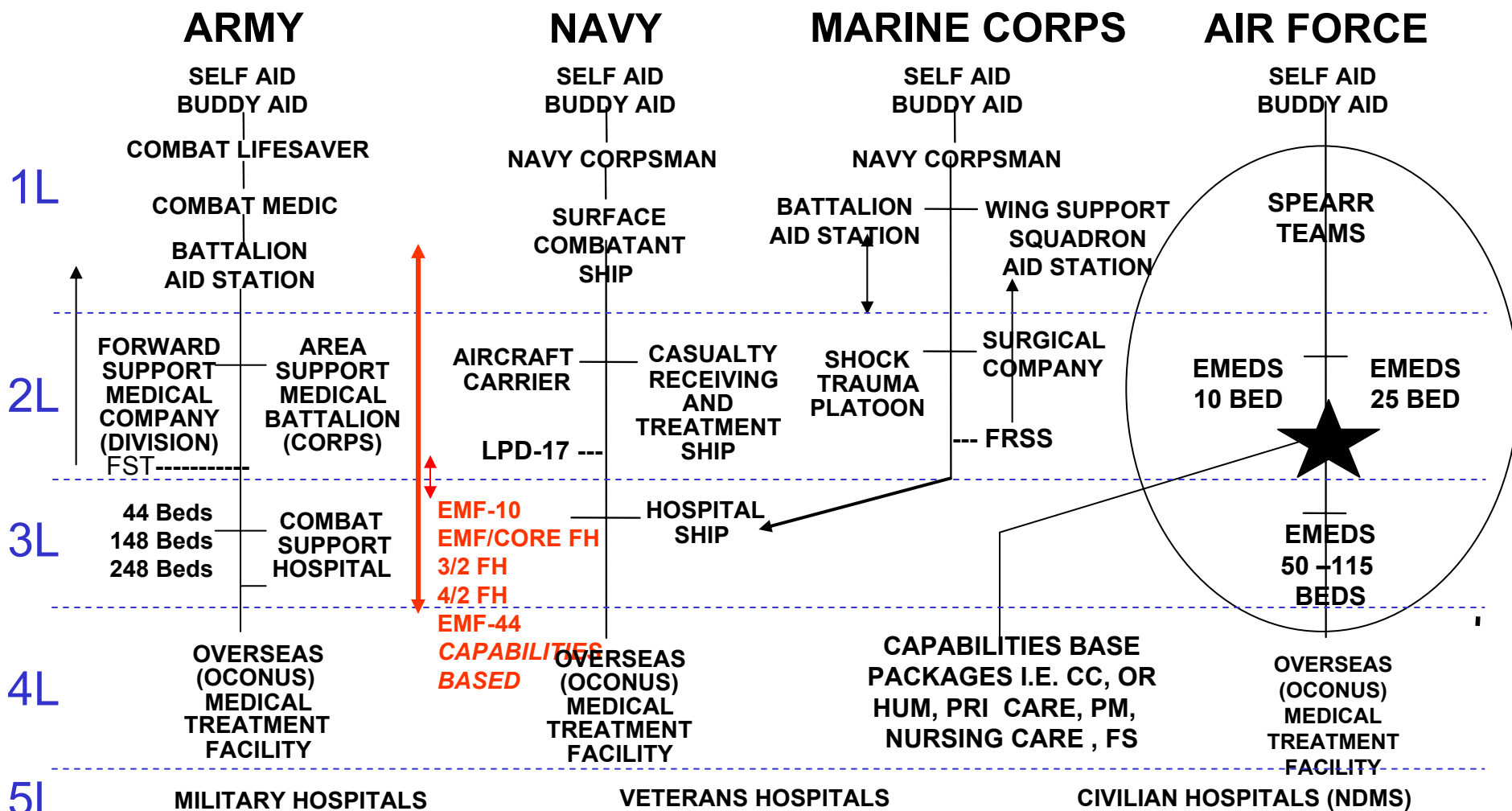




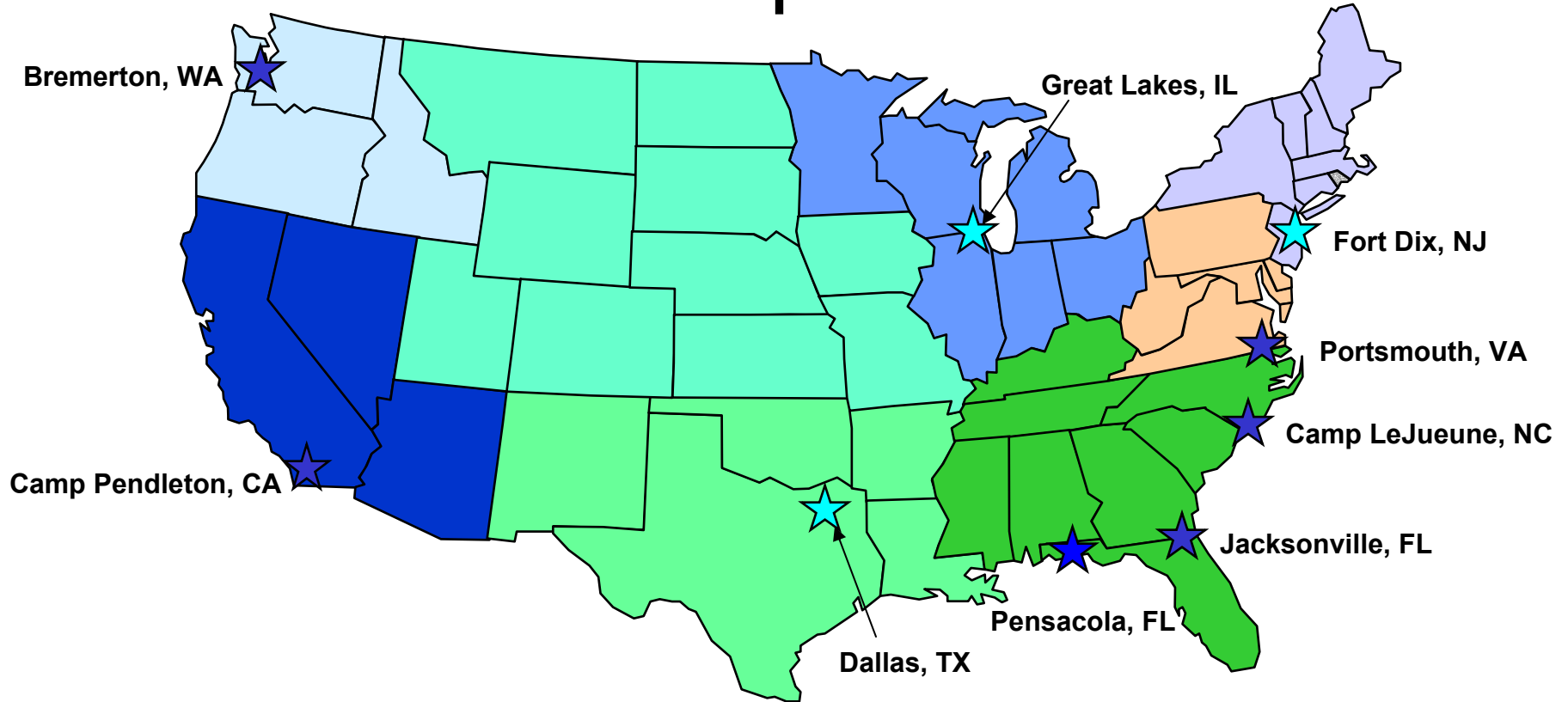
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# THEATER COMBAT MEDICAL SYSTEM



## Fleet Hospital Locations



- ★ - Active
- ★ - Reserve





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# *History*



[illegible]



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## FLEET HOSPITAL OPERATIONS & TRAINING CENTER

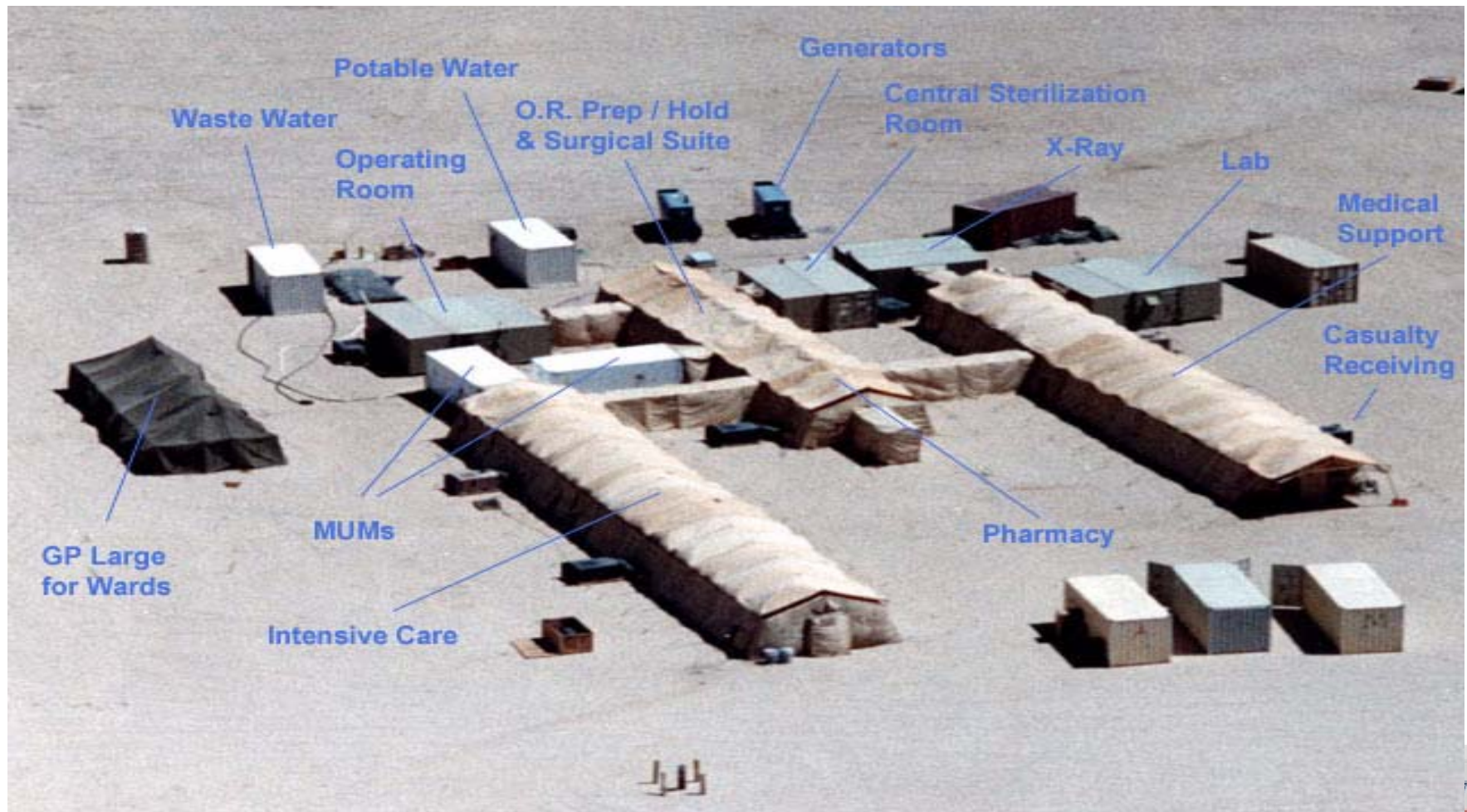
**DESERT STORM:**

**3 - 500 Bed FH's**

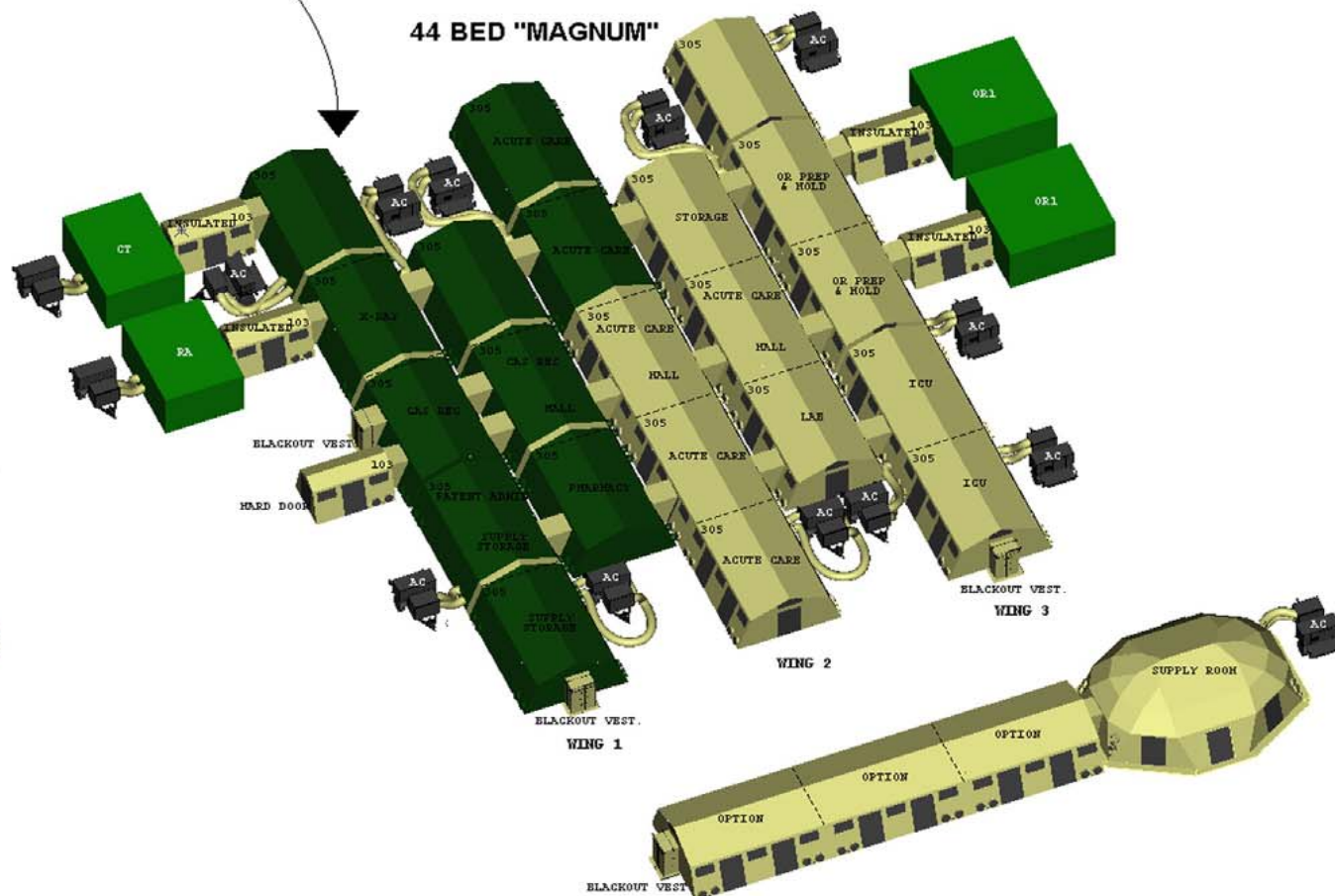




## FLEET HOSPITAL OPERATIONS & TRAINING CENTER



**10 BED**





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## **FLEET HOSPITAL OPERATIONS & TRAINING CENTER**

### **TRANSFORMATIONAL FLEET HOSPITAL**

- **500 Bed Capability to Support MTW**
- **“Break-Out” Expeditionary Medical Facility (EMF),**
- **Task Organized; Modular, Scalable Capability Sets**
- **Forward Deployed OCONUS in environmentally controlled spaces both afloat and ashore**
- **Built Within Current POM Profile**
  - **During scheduled Integrated Logistics Overhauls (ILO)**





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**FLEET HOSPITAL OPERATIONS & TRAINING CENTER**

# *Logistics*





## FLEET HOSPITAL OPERATIONS & TRAINING CENTER

### MARITIME PREPOSITIONING FORCE (MPF)

- Mission of the Military Sealift Command (MSC) is to provide ocean transport, and classes of supply to sustain U.S. forces worldwide during peacetime and in war based upon the warfighter's requirements
- MSC provides the sea transportation component for USTRANSCOM
- Ships are organized into 3 squadrons
  - MPS One: located in the Med
  - MPS Two: Diego Garcia
  - MPS Three: Guam/Saipan AOR







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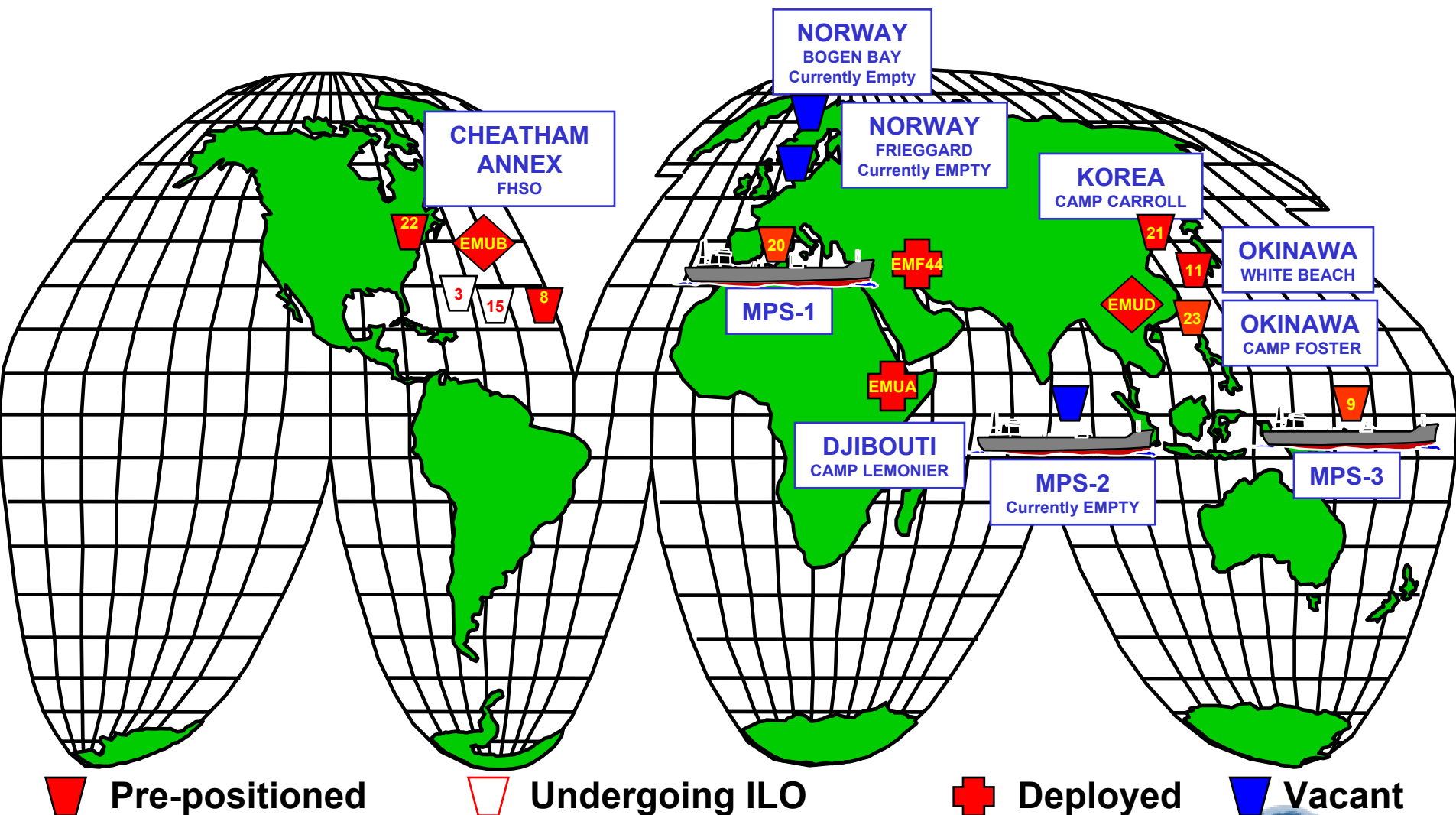


## **FLEET HOSPITAL OPERATIONS & TRAINING CENTER**

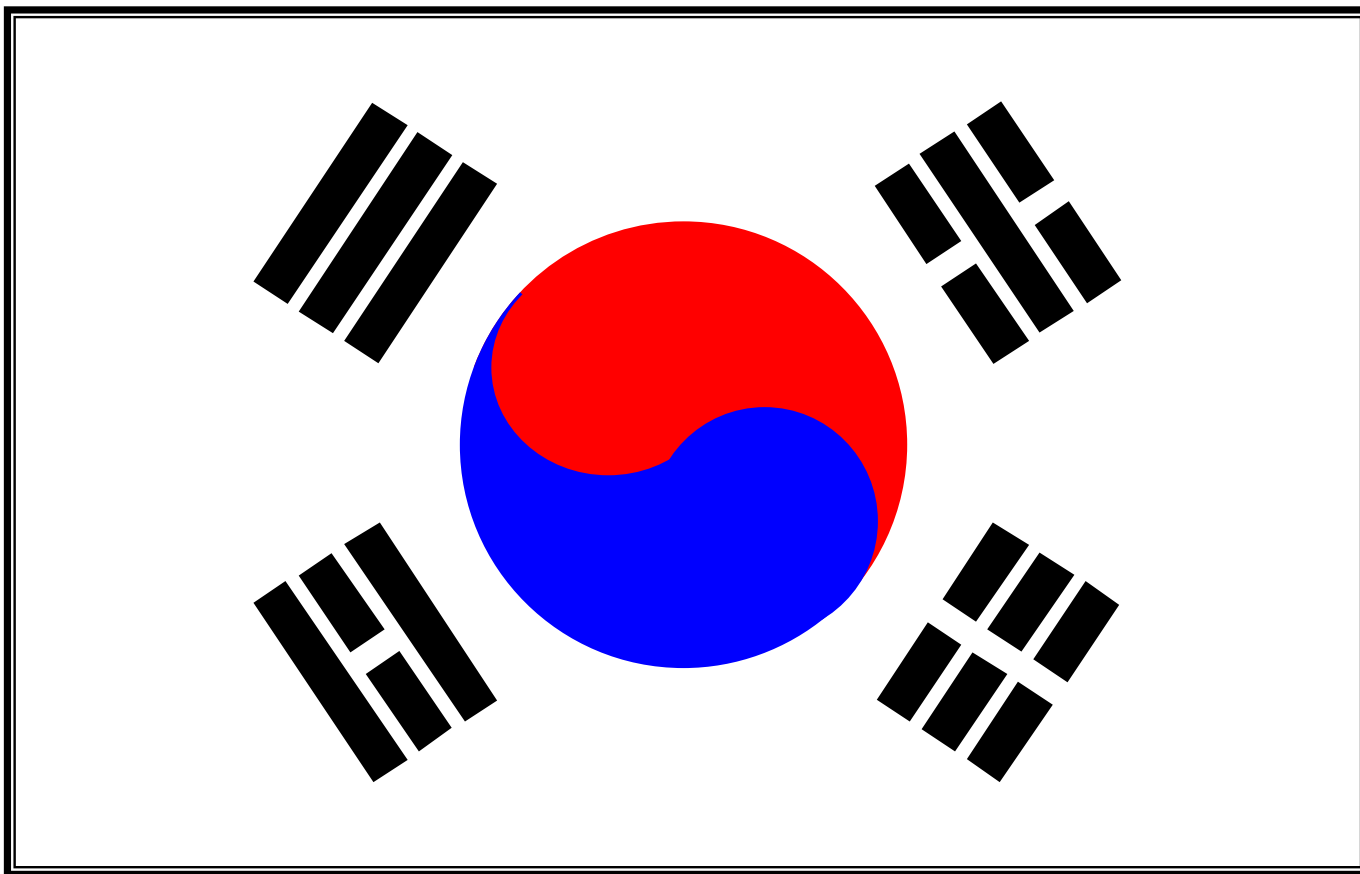
### **MARITIME PREPOSITIONING FORCE (MPF)**

- 16 ships are configured to transport supplies for the USMC
- Each squadron carries classes of supply required to sustain approx 15K forces x 30 days
- FH's are embarked on these ships
  - Spreadloaded across the squadrons
- Periodic integrated logistic overhaul (ILO) is completed at Blount Island, Jax, FL





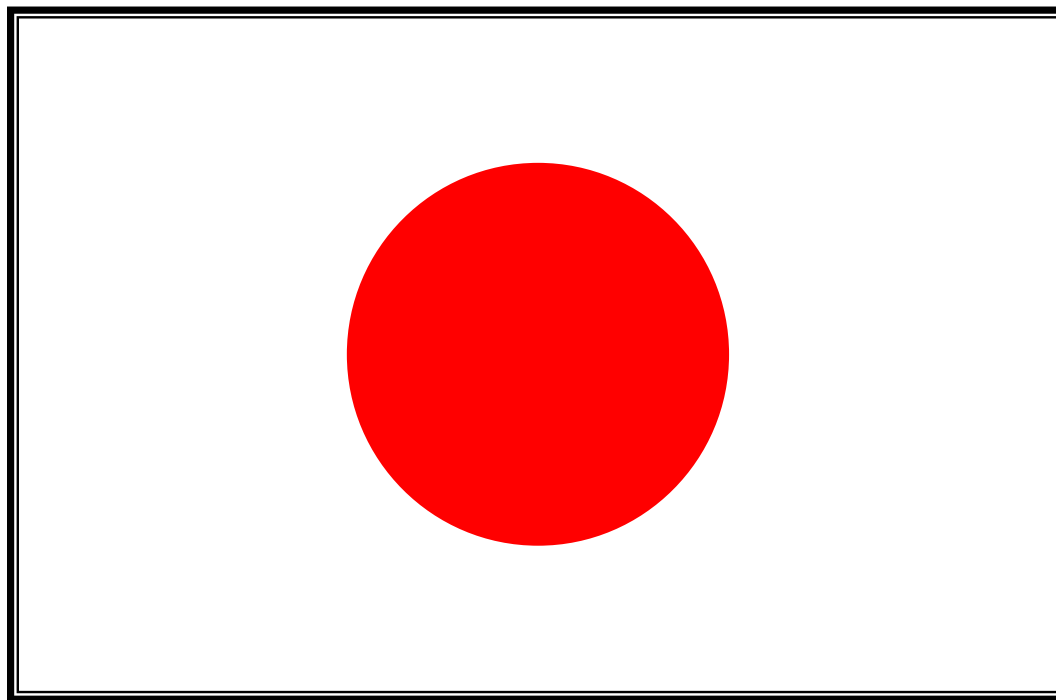
# KOREA





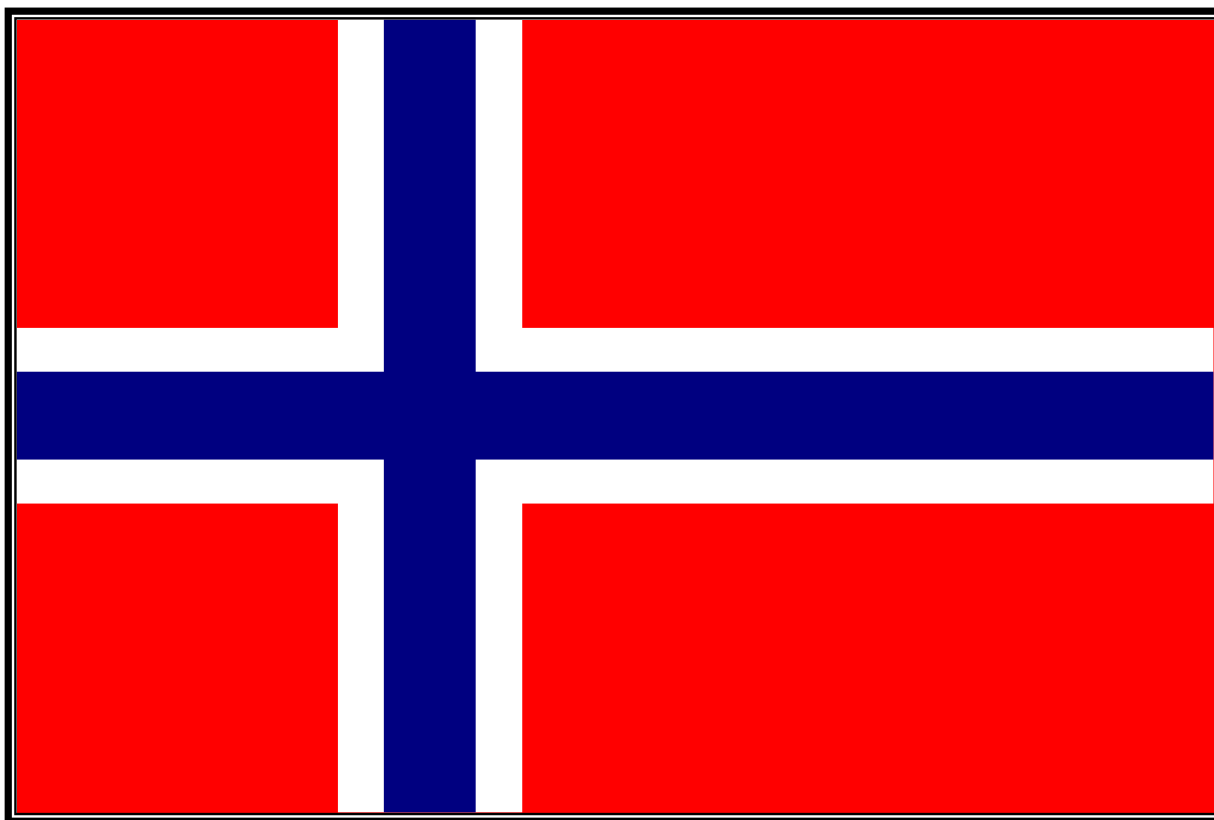


# JAPAN





# NORWAY





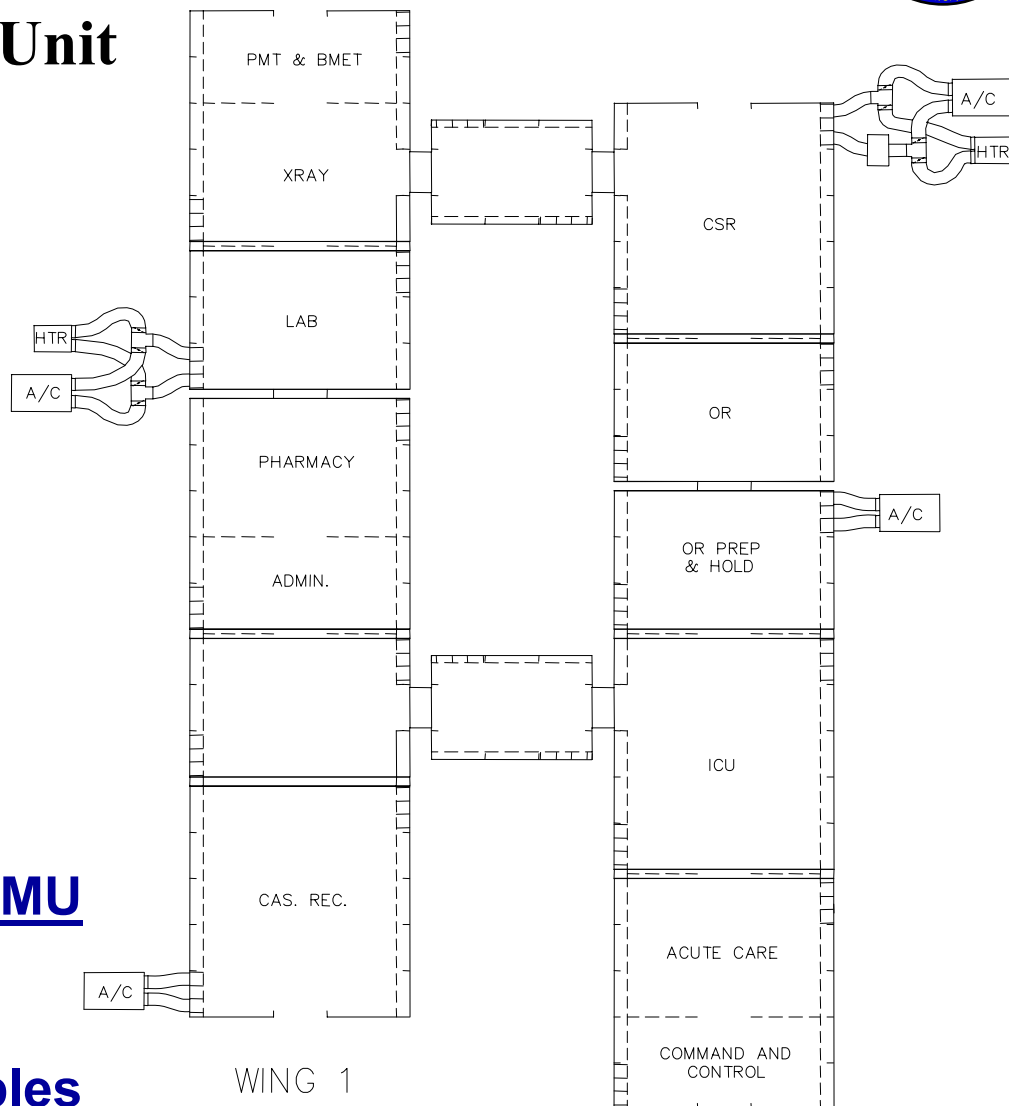






*Next?*

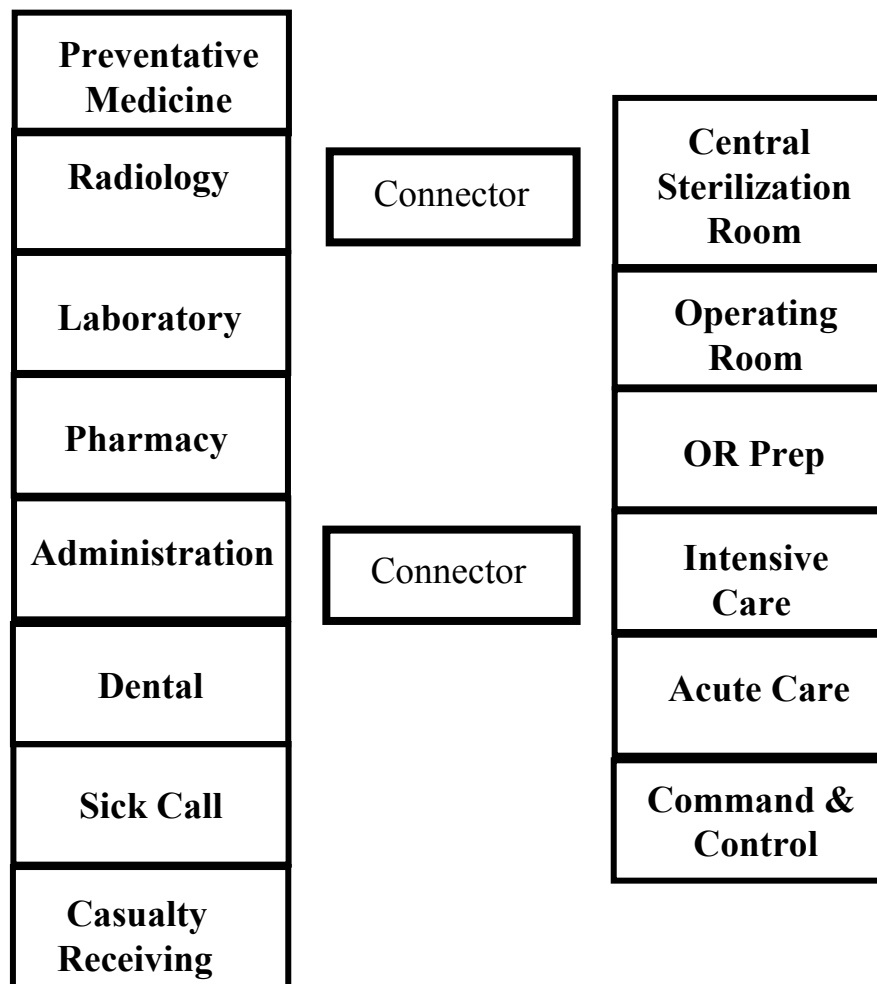
### Expeditionary Medical Unit



**10 Bed EMU**  
**0.5 acres**  
**40 staff**  
**1 OR Tables**  
**10 ICU Beds**

## Capabilities-Based

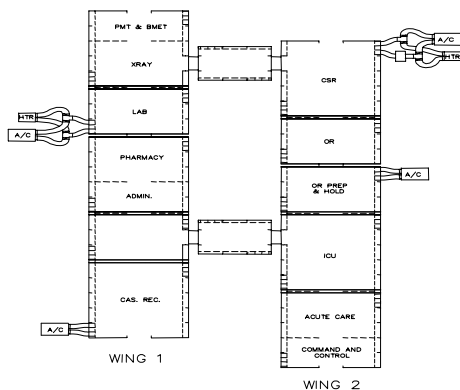
**Capabilities-Based** - Ability to custom assemble, modify and/or enhance a deployable medical system from functional modules to meet original and changing mission requirements.





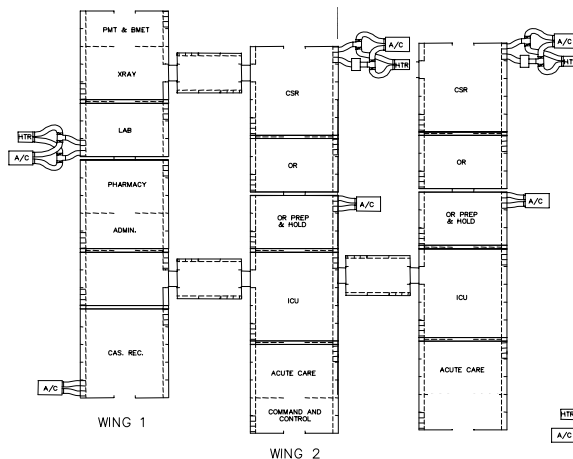
# Capabilities Enhanced

## EMU



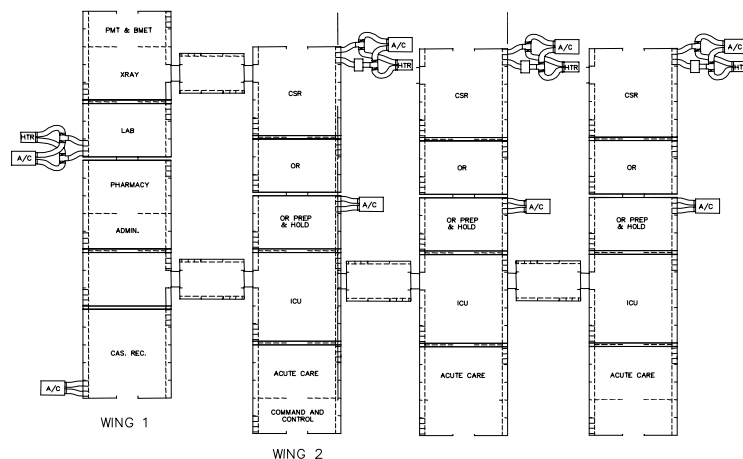
Smaller...  
Faster...  
Lighter

## EMU+

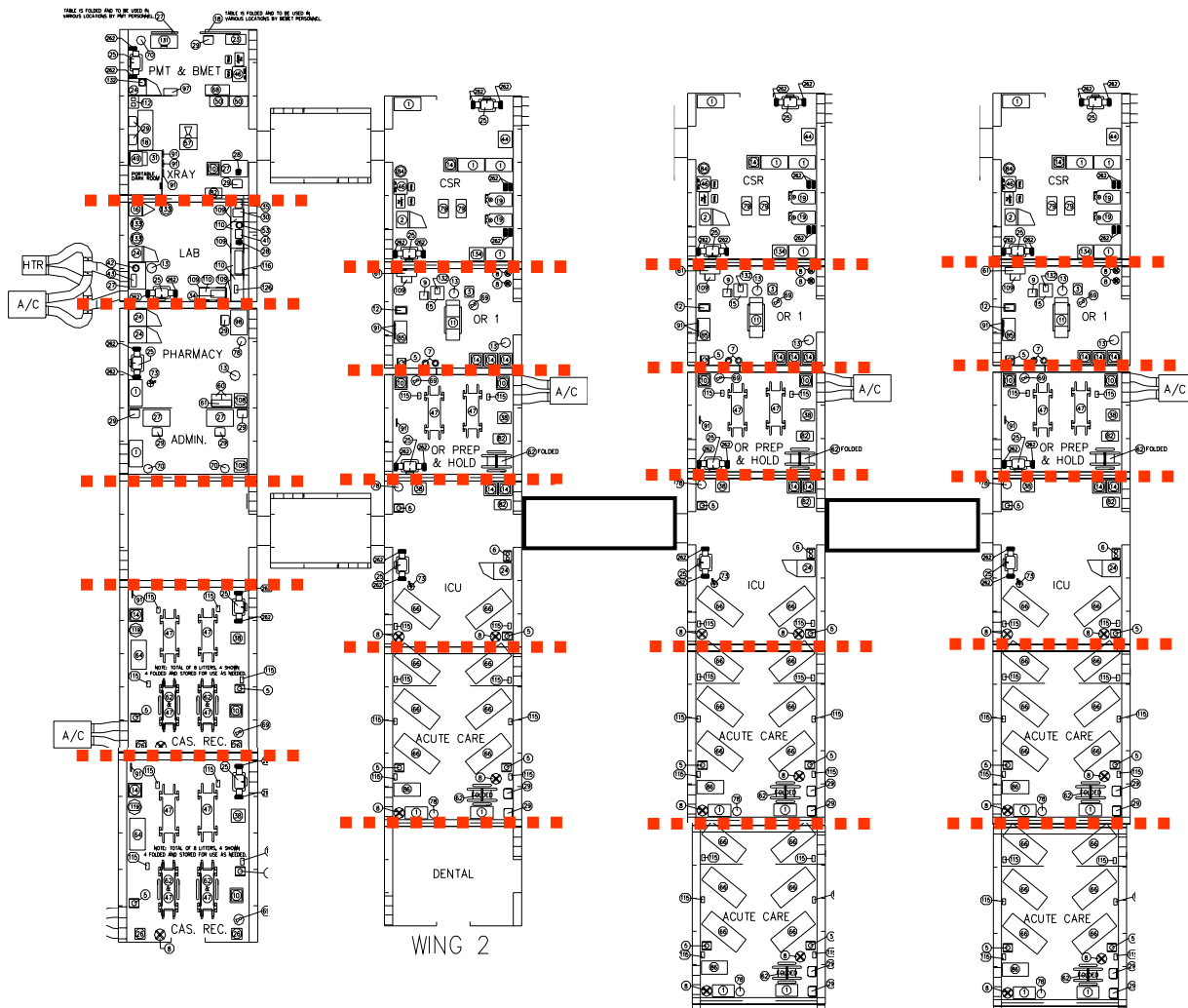


Mobile.....  
Modular.....  
Mission-driven

## EMU++



# EMU/EMF





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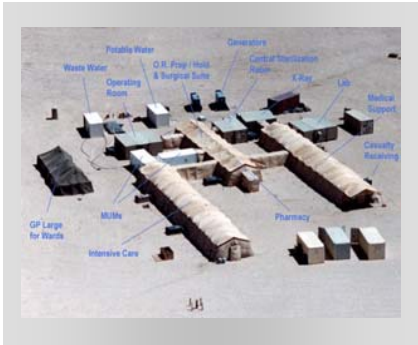




**EMF / CORE**  
**500 BED**  
**FH**



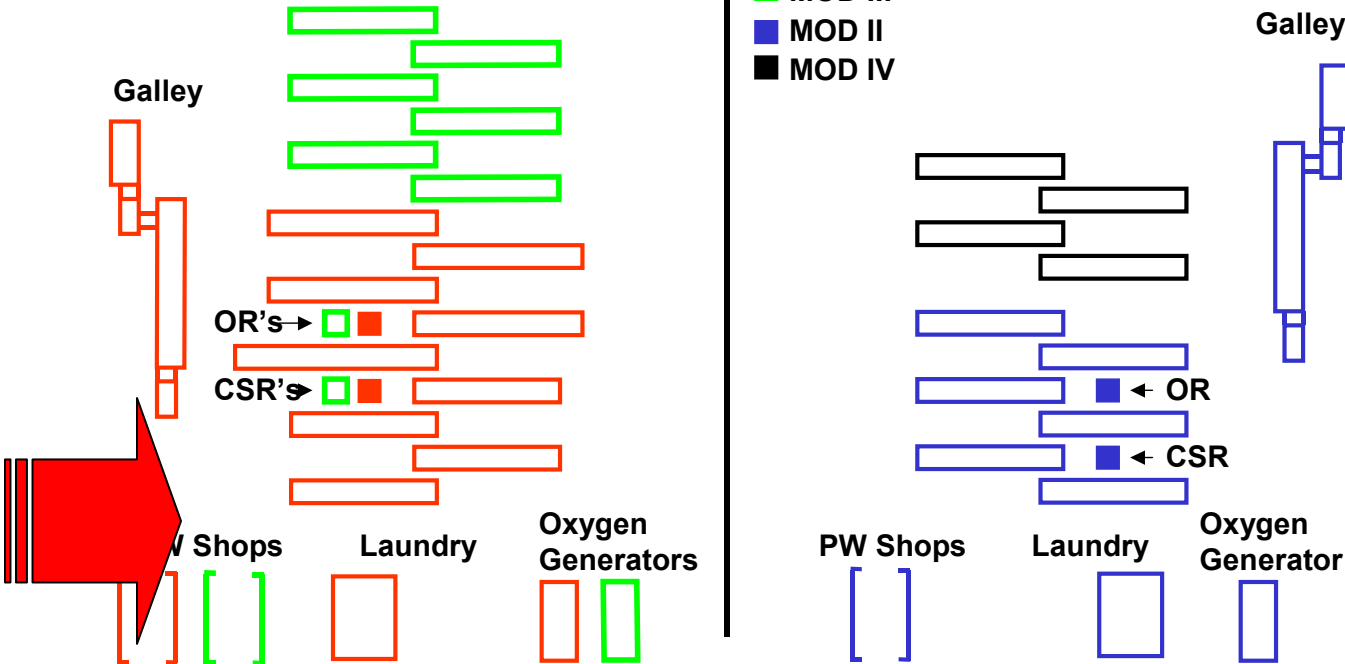
**20-116 BED**  
**EMF**



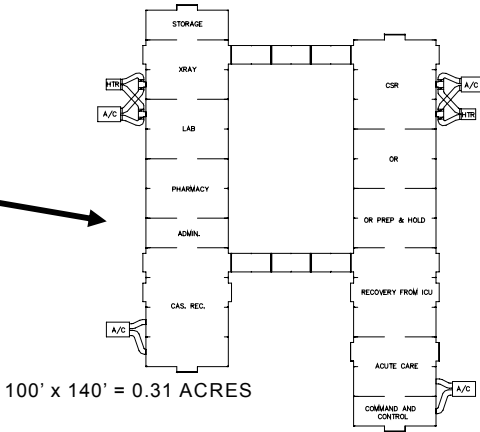
# Product Summary

**“4/2”**  
**April 03 Build**

- MOD I
- MOD II
- MOD III
- MOD IV



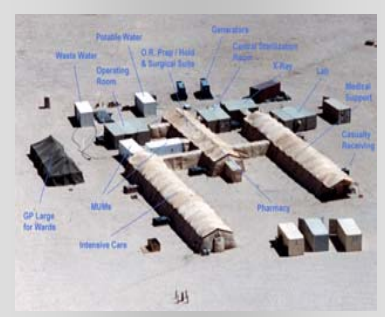
**EMU**



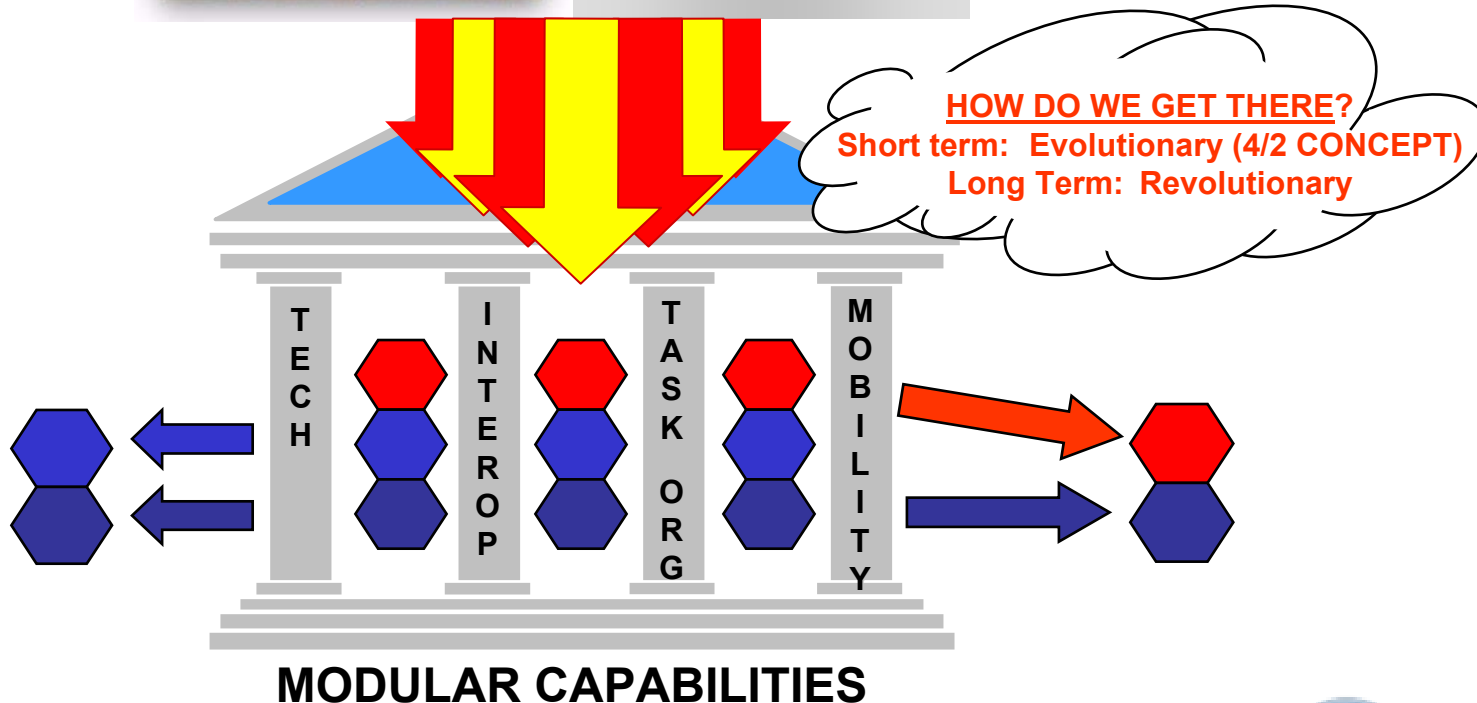
100' x 140' = 0.31 ACRES

# Designing the Next Generation FH

500 BED  
FH



20-116 BED  
EMF



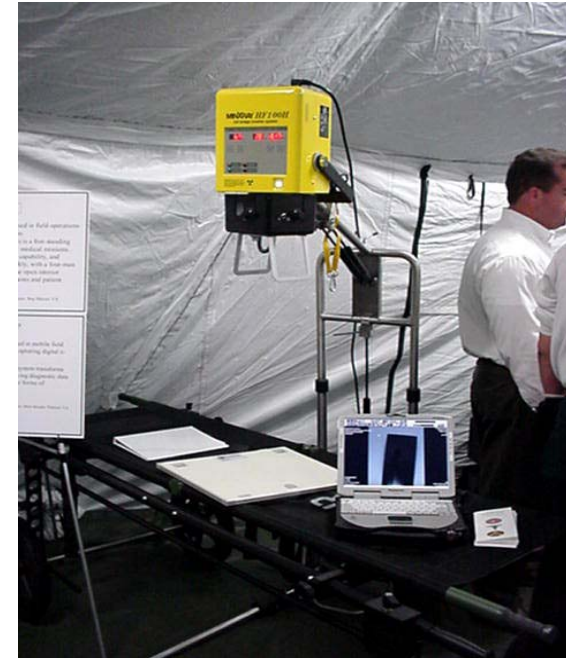
# New Equipment Added

- **Medical Technology Upgrade**
  - **Piccolo Chemistry Analyzer**
  - **External Fixation Device**
  - **Blood Coagulation Unit**
  - **Sonosite Ultrasound**
  - **Narkomed Anesthesia Vaporizer**
  - **Zoll Defibrillator**
  - **Digital X-ray Capability - Prototyping**



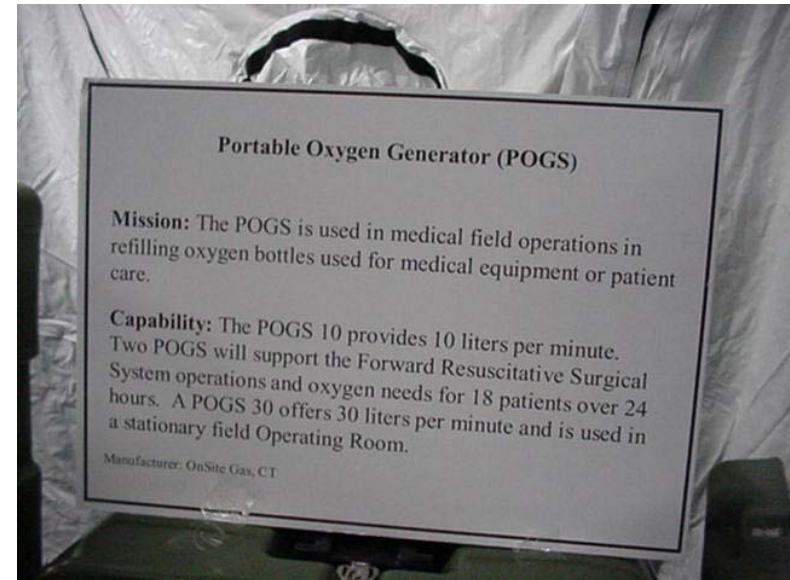


**Computer Radiology Unit:**  
**Note: Laptop, Laser Imaging,**  
**self contained cart.**





## “POGS” Portable O2 Generator System



**Advantages:**

- Lightweight**
- **Portable**
- **Self-contained**
- **Modular**

**(Linked together)**



**Operating table:** Includes lighting, arm boards, shelving and IV stanchions. Total wt. 300 lb packs in carrying case. **Key:** Updated version to provide various positions points.



# What's Next For The EMU/Transport



We are developing methods to use existing assets to enhance our ability to move ourselves.....



*Solution: Repack GP tents into STF's.*



*Now two tents easily fit into one STF. Five STF's can fit into one ISO container!!*

**10 GP Tents per 20' ISO Container**





*“We now can fly it...”*

**EMU (Bravo)**

**Tactically repacked now fits onto 17  
463L pallets. (One C-17 airlift)!!!!**

## FLEET HOSPITAL SITE REQUIREMENTS

<u>Required Site</u>	<u>Acres</u>
500 bed	28
EMF	2.0
EMU	0.3

## CAPABILITIES

	500 Bed	EMF	EMU
• Casualty Receiving	X	X	X
• Medical Support	X	X	X
• OR Prep and Hold	X	X	X
• Surgical Suite	X	X	X
• Oral Surgery/Dentistry	X		
• Intensive Care Unit	X	X	X
• Acute Care Wards	X	X	
• Laboratory	X	X	X
• Radiology	X	X	
– RAD/FLOURO			
• Pharmacy	X	X	X
• CSR	X	X	X

## *DEPLOYMENTS ISO OEF/OIF*











- FHAT was deployed 11-27 Feb
- FH08 Staff from Bremerton, WA
- EMF Built in 4 days without BOS
- Site was NAVSTA Rota, Spain





# FH05 – Norway to Rota, Spain



- **3-6 March** All FH 05 CESE de-preserved and activation
- **7-9 March** Documentation preparation and Line haul
- **10 March** Ship Arrival
- **10-14 March** Ship loading
- **14-21 March** Ship Transit Norway to Spain
- **21-23 March** Spain-Ship offload and Container pre-staging for build.



# FH05 – Deployment from Norway













- FHAT was Deployed 28 Feb-18 April
- FH03 Staff from Pensacola, FL
- EMF Was Built in 6 days with BOS
- Site in Iraq, 4 days after OIF started







LAUNDRY SHELTER



WASHING MACHINES



OPERATING ROOM



X-RAY SHELTER









EMU DJIBOUTI





## *PEACETIME OPERATIONS*



## HURRICANE IVAN DISASTER RELIEF PENSACOLA, FL



➤ **Two expandable OR's and equipment.**

➤ **Five Generator Sets.**

➤ **Housing/Laundry for 120 personnel.**

